

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Atty. Docket

GILLES MIET

FR 000137

Serial No.

Group Art Unit

Filed: CONCURRENTLY

Ex.

Title: APPARATUS COMPRISING A RECEIVING DEVICE FOR RECEIVING DATA  
ORGANIZED IN FRAMES AND METHOD FO RECONSTRUCTING LACKING  
INFORMATION

Commissioner for Patents  
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Prior to calculation of the filing fee and examination, please  
amend the above-identified application as follows:

IN THE CLAIMS

Please amend claims 3-7 as follows:

3. (Amended) An apparatus as claimed in claim 1, characterized  
in that said waveforms are standardized during a time period called  
reference period before extrapolation and in that the reconstructed  
waveform is destandardized as a function of an extrapolated  
duration.

4. (Amended) An apparatus as claimed in claim 1, characterized  
in that the reconstruction device comprises an adder of noise whose  
magnitude is based on the degree of correlation between the  
waveforms already passed.

5. (Amended) An apparatus as claimed in claim 1, characterized  
in that the reference period is based on the period of the highest  
possible waveforms.

1 6. (Amended) An apparatus as claimed in claim 1, characterized  
2 in that it satisfies the GSM and/or UMTS standard.

1 7. (Amended) A data reconstruction method implemented in the  
2 apparatus as claimed in claim 1, characterized in that it comprises  
3 the following steps:

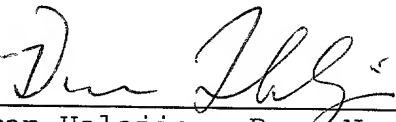
- 4 - storage of a certain number of data
- 5 - determination of waveforms based on these stored data
- 6 - determination of the period of these waveforms,
- 7 - possible standardization during a same period called  
8 reference period of these waveforms,
- 9 - reconstruction of waveforms established via correlation  
10 with already established waveforms, on the basis of the reference  
11 period,
- 12 - reconstruction of the period of the reconstructed  
13 waveforms based on the period of the already established waveforms,
- 14 - destandardization of the reconstructed waveforms, and
- 15 - replacement of bad data by the reconstructed and  
16 destandardized waveforms.

REMARKS

The foregoing amendment to claims 3-7 were made solely to avoid filing the claims in the multiple dependent form so as to avoid the additional filing fee.

The claims were not amended in order to address issues of patentability and Applicant respectfully reserves all rights under the Doctrine of Equivalents. Applicant furthermore reserves the right to reintroduce subject matter deleted herein at a later time during the prosecution of this application or continuing applications.

Respectfully submitted,

By   
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December 13, 2001

## Appendix A

### Version with Markings to Show Changes Made to the Claims

The following are marked up versions of amended claims 3-7:

1 3. (Amended) An apparatus as claimed in ~~one of the claims 1 to~~  
2 ~~2~~, characterized in that said waveforms are standardized during a  
3 time period called reference period before extrapolation and in  
4 that the reconstructed waveform is destandardized as a function of  
5 an extrapolated duration.

1 4. (Amended) An apparatus as claimed in ~~one of the claims 1 to~~  
2 ~~3~~, characterized in that the reconstruction device comprises an  
3 adder of noise whose magnitude is based on the degree of  
4 correlation between the waveforms already passed.

1 5. (Amended) An apparatus as claimed in ~~one of the claims 1 to~~  
2 ~~4~~, characterized in that the reference period is based on the  
3 period of the highest possible waveforms.

1 6. (Amended) An apparatus as claimed in ~~one of the claims 1 to~~  
2 ~~5~~, characterized in that it satisfies the GSM and/or UMTS standard.

1 7. (Amended) A data reconstruction method implemented in the  
2 apparatus as claimed in ~~one of the claims 1 to 6~~, characterized in  
3 that it comprises the following steps:

- 4 - storage of a certain number of data
- 5 - determination of waveforms based on these stored data
- 6 - determination of the period of these waveforms,
- 7 - possible standardization during a same period called
- 8 reference period of these waveforms,

- 1 - reconstruction of waveforms established via correlation
- 2 with already established waveforms, on the basis of the reference
- 3 period,
- 4 - reconstruction of the period of the reconstructed
- 5 waveforms based on the period of the already established waveforms,
- 6 - destandardization of the reconstructed waveforms, and
- 7 - replacement of bad data by the reconstructed and
- 8 destandardized waveforms.